

Receipt date: 03/30/2005

10/529751  
JC17 Rec'd PCT/PTO 30 MAR 2005  
PATENT APPLICATION

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q72256

Susumu KAYAMA, et al.

Appln. No.: National Stage Entry of PCT/JP03/12554

Confirmation No.: Unknown

Group Art Unit: Unknown

Filed: March 30, 2005

Examiner: Unknown

For: TITANIUM OXIDE FOR DYE-SENSITIZED SOLAR CELLS

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after

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INFORMATION DISCLOSURE STATEMENT

National Stage Entry of PCT/JP03/12554

Attorney Docket No.: Q872256

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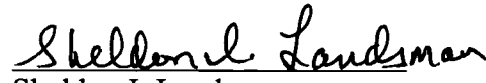
filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant encloses herewith a copy of an English-language International Search Report dated March 19, 2004 for the corresponding International Application PCT/JP03/12554, including at least that portion of the International Search Report indicating the degree of relevance found by the International Searching Authority. Also, the following documents are cited in the specification starting at page 1: JP-2001-283942 (pages 1 and 3), JP-2001-357899 (page 4), M. Kiyono, "Sanka Titan" (page 11), "Sentan Koukinouzairyo" (page 29) and JP-11-43327 (page 27).

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

Respectfully submitted,

  
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MODIFIED PTO/SB/08 A & B (06-03)

Substitute for Form 1449 A & B/PTO  <b><u>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</u></b>  <i>(use as many sheets as necessary)</i>				Complete if Known <b>10/529751</b>	
		Application Number		National Stage Entry of PCT/JP03/12554	
		Confirmation Number		Unknown	
		Filing Date		March 30, 2005	
		First Named Inventor		Susumu KAYAMA	
		Art Unit		Unknown	
		Examiner Name		Unknown	
		Attorney Docket Number		Q72256	
Sheet	1	of	1		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
/JB/		US 5,489,466	A	02-06-1996	Inaba et al
/JB/		US 5,789,592	A	08-04-1998	Gratzel et al
/JB/		US 2001/0043904	A1	11-22-2001	Tanaka et al
		US			
		US			
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FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> <i>(if known)</i>			
/JB/		WO	03 048048	A	06-12-2003	Kemira Pigments Oy (FI))	
		JP	2002-83987	A	03-22-2002	Seiko Epson Corp	Abstract
		EP	0 847 961	A1	06-17-1998	Toda Kogyo Corp	
		JP	2001-283942	A	10-12-2001		
		JP	2001-357899	A	12-26-2001		
/JB/		JP	11-43327	A	02-16-1999		
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
/JB/		BARBE, et al., "Nanocrystalline Titanium Oxide Electrodes for Photovoltaic Applications", J. Am. Ceram. Soc., Vol. 80 No. 12, 1997, pp. 3157-3171	
/JB/		M. KIYONO, "Sanka Titan", (Titanium Oxide) (1991), pp. 54-55	
/JB/		"Sentan Koukinouzairyo", Vol. 6, Denjikitteki Kinouzairyo 2 Denchizairyo, 2001, NGT Corporation, pp. 439-447	

Examiner Signature	/Jeffrey Barton/	Date Considered	03/19/2009
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.